

I would like the FCC to set stricter safety guidelines for wireless technology.

My personal experience following the installation of a smart meter on my home influenced my belief that current safety standards for wireless technology are inadequate and need to be updated. I hope you will take the time to listen to my experience, which is detailed in the document below.

Like many others, I had an immediate reaction to the smart meter on my home. I did not anticipate a problem with the new meter prior to the installation, and I had never reacted to wireless technology before (and, in fact, I still don't react to other wireless devices).

I have no idea why my reaction was so severe: Since it is a mesh system, is my home near the data center? Is it the compound effect of exposure from multiple sources? Are the signals higher than the manufacturer claims? I don't have the answer. I just have my experience.

I am certain that it was the smart meter that caused my problems:

1. There was a sudden onset of symptoms, immediately following installation of the meter.
2. My reaction was systemic, with multiple symptoms.
3. My symptoms consistently went away when I was able to spend time away from home; and
4. Now that smart meter is no longer on my home, the steps I have taken to shield my home from neighboring smart meters have been effective in keeping my symptoms away.

I submitted my testimony for consideration in Michigan's opt out proposal, but all health concerns were dismissed since, DTE agreed to allow residential customers to pay to opt out. Below is my testimony, as submitted to the ME court.

I appreciate your reading my testimony with an open mind, and considering it as a possible indication of the inadequacy of existing safety standards.

I am most concerned about the possible negative effects on our children---our future!---whose nervous systems are still developing and are more vulnerable. They are worth your conscientious attention to this matter; we all are!

Respectfully submitted,  
Rebecca Morr

**PRE-FILED DIRECT TESTIMONY  
OF REBECCA MORR  
MPUC Docket No. 2011-00262**

**Q. Please state your name, address and contact information.**

A. My name is Rebecca Morr. I live at 2752 Gloucester Way, Ann Arbor, Michigan 48104.

**Q. Was a smart meter installed at your residence?**

A. Yes.

**Q. Did you offer to provide testimony in another proceeding about your experience with smart meters?**

A. Yes. I have had serious health problems related to smart meters and I offered testimony in a Michigan Public Service Commission hearing (Case No U-17053) reviewing a proposed opt-out program for Detroit Edison Company's Advanced Metering Infrastructure. Unfortunately, the Commission would not accept any testimony about health and safety issues.

**Q. Is the attached document marked as Exhibit A a true and accurate copy of the testimony that you offered to provide to the Michigan Public Service Commission?**

A. Yes it is.

**Q. Are the statements that you made in the attached Exhibit A still true and accurate?**

A. Yes.

**Q. Do you wish to add anything here not included in your statement in Exhibit A?**

A. I had my home tested for EMF levels with a TriField meter, model 100XE. (I don't remember the exact date).

My home tested high EMF in many locations. Therefore, I hired an electrician who is knowledgeable about RF and EMF to make some changes in my electrical wiring in order to, hopefully, lessen the EMF levels.

Of course, I don't know what the EMF levels were prior to the meter change, but I had never experienced symptoms before, so something major changed when the meter was installed.

My home was built in 1962. I had my home inspected before purchasing it in 1987, and I have always hired reputable people for repairs or additions. It is a nice home, but it was not built with modern technology in mind. If the electrician found instances where EMF levels were raised in my home, I suspect there are many other homes where dirty electricity from these meters has elevated EMF levels.

The electrician spent a little over 2 days upgrading the wiring in my home. He said that more can be done, if needed: there are additional interventions that he could do which would involve working with a plumber. He

suggested starting with the wiring. So, on Dec. 21-23, he made changes in the electrical wiring in my home.

I was away from my home immediately following the work by the electrician. I left for a trip on Dec. 23, 2012 and I just returned on Jan. 4, 2013. ALL of my symptoms completely went away on my trip, in fact, within the first week of my trip.

On January 14, 2013, he did additional testing. Some of the high EMF readings had gone down. There are still some areas that test high, however.

It is still too soon to know how much, if at all, the recent changes in wiring have helped in alleviating my symptoms. What I noticed immediately upon returning home after being gone for three weeks, was that the ringing in my ears, though still an issue, was not as constant. So far, this intervention, like all the others, has helped at least to some degree. As I said, it is still too soon to know. It remains to be seen if my symptoms resurface after I have been home for a longer period of time.

I am planning to follow through with additional interventions to, hopefully, bring my home back to the level of comfort that I enjoyed prior to the meter installations.

I am grateful that I have had the resources to be able to spend a great deal of time away from my home since the meters were installed; and the resources to remediate at least some of the adverse effects of the smart meter installations. I'm sure there are others who are not as fortunate, who are forced to just live with the problem.

**Q. Do you want to submit the statements in Exhibit A to the Maine Public Utility Commission for consideration in its pending proceeding to investigate the safety of smart meters?**

A. Yes. I submit the attached testimony in support of complainants Ed Friedman, et al in their case before the Maine PUC as evidence that smart meters are not safe.

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Rebecca Morr

**Q. On whose behalf are you testifying?**

A. That of Intervenors Linda Kurtz and Cynthia Edwards.

**Q. What are your qualifications to testify?**

A. I take my electric service from Detroit Edison. My health has been extremely affected by the smart meter that was first on my home and the nontransmitting Itron digital meter that is now on my home.

DIRECT TESTIMONY OF REBECCA MORR

**Q. What is the purpose of your testimony?**

A. To provide information that establishes that there is a need for a no-fee opt-out and the need for an analog meter option. To provide information that may help the Commission in determining that smart and digital meters create certain kinds of economic, medical, social, or other harm or hardship, as outlined in Intervenor Linda Kurtz's Petition for Intervention, to some or all persons such that Detroit Edison and the Commission must not require those who are or who are likely to be so harmed to have a smart or digital meter placed on their home or place of business or to be otherwise deprived of rights and liberties, as outlined in Intervenor Kurtz's Petition for Intervention, by the deployment of the advanced metering infrastructure, smart meters, or digital meters, and, in the alternative, that such persons must be able to avoid such harm to their person and property without being charged a fee.

**Q. How long have you lived at your current residence, and do you rent or own?**

A. 25 years

**Are you retired?**

A. I am a retired.

**Q. Before a smart meter was installed on your home, did you have problems with wireless technology?**

A. No. Prior to the installation of my smart meter, I did not have any problems with wireless technology. I did not experience symptoms when using a cell phone; I did not experience symptoms when I used wireless internet or when I entered a facility that offered wireless internet; and I did not experience symptoms from the wireless technology that was already in my home, which, at the time of the smart meter installation, included a wireless water meter, and a cordless phone.

**Q. Prior to the installation of a smart meter on your home, were you affected by other electrical devices?**

A. No, not that I was aware of.

**Q. When was a smart meter installed on your home?**

A. A wireless smart meter was installed on my home on the morning of Saturday, March 10, 2012, while I was not home.

**Q. Did you know the meter was going to be installed?**

A. Yes. A few weeks before the installation, I had received a notice from DTE that a new, upgraded, wireless meter would be installed on my home. When I got the notice, I called DTE indicating that I would rather not have the wireless meter. I was told that I had no choice. Although I would have preferred not to get it, I was not anticipating a problem with it either. It was a "preference" not to have it, as opposed to an aversion.

**Q. You say you preferred not to get one, then tell us why you didn't want it.**

A. As I said, it was just a preference. When I got my first cell phone, I read the manual, and it indicated that, for safety reasons, I should hold the cell phone about an inch from my head when using it. I believed the manufacturer's warnings which indicated there may be risks involved with this technology. I have used, and still use, lots of wireless devices. It's not that I worry about their effects and avoid them; it is more that I weigh the benefits, and I purchase the ones which I see as highly beneficial, I choose not

to use the ones that are not. The meter did not fall into the “highly beneficial” category. I am concerned about the environment and I am already conscientious regarding my energy usage at home. I keep my thermostat lower and wear warm clothing in the winter, I turn down my heat at night and when I am gone, I don't often use air conditioning during the summer, I have replaced older appliances for newer, more efficient ones, My TV is very small and I rarely watch it, I turn off the lights I don't need. In weighing the proposed benefits a smart meter, it didn't seem like something I needed. However, when I called DTE, I was told I didn't have a choice. I didn't get upset or argue. I just accepted it. Had I had any idea what an impact it would have on my life, though, I would have protested immediately

**Q. What happened when you returned home after the meter had been installed?**

A. I returned home a little after 1 p.m.. There was a note on my door indicating the new meter had been installed. I didn't think much about it. Shortly after arriving at home, I went into my kitchen to prepare lunch. There are no words that can adequately describe what happened next. Here's my best effort:

As I stood at my kitchen sink (a stainless steel sink, opposite my refrigerator), I felt a very uncomfortable vibration, like a low-level electric current, going through my body; there was a buzzing sound in my head; and I experienced a jittery feeling in my body.

When I stepped away from the sink, the feeling lessened considerably, but was still noticeable, especially whenever I was in close proximity to the back wall of my home.

My first thought was, “That must be the new meter. This will take some getting used to.” At that point, I wasn't upset and I didn't panic. I honestly thought that my body would just need some time to adjust to it, and then everything would be okay.

Later, a friend who is a physics professor explained that my extreme reaction may have been because radio waves were bouncing off the metal surfaces of the sink and/or the refrigerator. I don't know what caused it; I just know it was weird and extremely uncomfortable.

**Q. So you weren't worried about the new meter?**

A. No. not yet. I wasn't worried prior to the installation, and when I first had the reaction, I just thought it was something my body would adjust to. Looking back, of course, I think "How could I have been so stupid? Why didn't I leave my house immediately?" At the time, though, as strong as my initial reaction was, it didn't occur to me that exposure to a meter could cause problems, or have prolonged consequences. I assumed I'd get used to it and the weird feeling and buzzing in my head would go away. It was seeing my blood pressure suddenly shoot up, that suggested to me that the meter was causing more than a "weird feeling." That's what triggered my concern.

**Q. Had you heard of smart meters prior to having one installed on your home?**

A. Yes and no. I was not aware of any controversy. I had seen an article that said energy companies were installing new meters; that in some locations, people were being forced to accept the meters whether they wanted them or not; and that it wasn't right. I tend to be more accepting of things, and because I considered the views of this person to be a little extreme, I hadn't taken the article seriously. I hadn't given it much thought, that is, until my personal experience with smart meters.

**Q. What happened next, the day the meter was installed?**

A. As the day progressed, I developed a dull headache and I had a hard time focusing and concentrating. I also became hoarse. At first, I didn't make a connection between these symptoms and the meter. I did later, though, when these symptoms persisted, and when they developed at home, but went away after being away from home for awhile.

That first day, in addition to the headache and lack of focus, by early evening, my blood pressure had gone up significantly. High blood pressure had not been an issue for me. I had had a blood pressure monitor, and for several years I had checked it occasionally. There had never been cause for concern.

**Q. Why had you made the decision several years ago to check your blood pressure from time to time?**

A. I care about my health. Checking it occasionally was a precautionary measure.

**Why are you so sure that the smart meter influenced your blood pressure readings?**

A. Quite by coincidence, I had taken lots of readings right before smart meter installation. I do Bikram Yoga almost every day. It is a 90 minute, rigorous series of 26 postures, that is done in a room that is 105 degrees. It is a good workout. A fellow classmate had mentioned health benefits she attributed to her yoga practice, lower blood pressure being one of them. As I said, I didn't have blood pressure issues, but I wondered what effect, if any, my yoga practice had on mine. I decided to do an experiment: My plan was to take my blood pressure three times a day: before class, after class, and a reading later in the day. It was because of this experiment that I noticed the immediate spike in my blood pressure.

**Q. What were your blood pressure readings prior to the smart meter installation?**

A. Exhibit A is my record of blood pressure readings from March 1 through March 12. Prior to March 10 (installation day), the range in readings was 108/61 to 133/75. The average reading was 119/64.

**Q: What were your readings the day of the installation?**

A. Before yoga, my blood pressure was 118/72. After yoga, it was 125/72.

By 5:00 p.m. it was 150/90. Later, it was 157/86. I remember that right before going to bed that night it was 165/90, but I did not record that reading.

It was the rise in my blood pressure that triggered my concern. It made me aware that my body was being affected on more levels than I had realized. and that the weird feeling I was experiencing was not something to take lightly

**Q. What did you do then?**

A. That night, rather than sleep in my own bed, I slept in the upstairs bedroom furthest away from my smart meter. The next day, Sunday, March 11, I called a friend and I arranged to stay at her house. I slept at her house from Sunday until I left for a three-week trip to Brazil on March 18.

**Q. The second night, you slept at a friend's house. Did you notice a difference when you slept at your friend's house?**

A. I didn't experience the buzzing sound in my head at her house, and the next morning my blood pressure was down again. I slept better than I had at my own house, and I didn't wake up with a headache. The weird, jittery feeling I had when at home lessened, but was still noticeable.

**Q. Did you return to your home?**

A. Yes. I could not totally avoid being in my own home that week because, in addition to packing for my trip, I had many things I had to take care of before leaving. However, I stayed away from home as much as I could.

**What happened when you were in your own home that week?**

The weird, jittery feeling and difficulty focusing persisted; I had headaches. Also, my eyes hurt, I became hoarse, and I developed a dry cough. For the first time in my life, I started on blood pressure medicine.

**Q. Did you call DTE?**

**A.** Yes. Monday, March 12, the first business day after my meter was installed, I called DTE from home. I was told there was no way to opt out of a smart meter. I explained that the meter was making me sick and that I couldn't stay in my house. I said I wanted to be transferred to someone who could help me. The person I talked to said she could not transfer me to a supervisor, but that she would arrange for someone to call me back. I indicated again that it was very uncomfortable for me to be in my house, but that I would wait there for the call. I said it was an emergency, and that I needed to talk to someone as soon as possible. No one called back. I called again that day or the next, and got no response.

How were you feeling inside your home waiting for the call? The jittery feeling, the difficulty concentrating, and the buzzing in my head were worse. I was also upset that I was getting such a run-around from DTE. I knew I was leaving the country in a few days. I had hoped that I'd be able to come back to a home with a normal, comfortable environment.

**Q. Did DTE get back to you?**

**A.** Not right away. When I had not heard back by Wednesday, March 14, two days after being told someone would call me back, I sent an email to DTE via their online complaint site. I was eventually told I was being referred to Elaine Curtis. I talked to Elaine on Friday, March 16.

**Q. What did she tell you?**

She said DTE would remove my meter if I could provide a letter from my doctor indicating my smart meter was making me ill.

**Q. Had you seen a doctor?**

**A.** Yes. I had seen my doctor earlier in the week, on Wednesday, March 14. At that time, of course, I had not yet talked with Elaine Curtis, so I did not know I would need a letter. Since it was Friday by the time learned about the need for a doctor's letter; and I was scheduled to leave for Brazil early on Sunday, I was unable to talk to her before I left. I called her office on Friday afternoon, and when I didn't reach her, I left a message.

I had contacted my doctor immediately; I had been concerned about all of my symptoms, but especially the high blood pressure readings. I wanted to get in to see someone before leaving on my trip. My appointment was on Wednesday, March 14. Following the appointment, I started taking a beta blocker. She said it should lower my blood pressure without making it go too low when I was away from smart meters. She was right, it did. It also helped relieve the persistent jittery feeling I was having. I continued to sleep at my friend's and spend as little time at home as I could.

**You were gone for three weeks. How did you feel in Brazil?**

**A.** I was fine in Brazil. I felt great and I slept very well. The headaches, the buzzing in my head, and the weird jittery feeling all went away and did not come back until I returned home.

**Did your doctor write the letter?**

**A.** Yes. In spite of the fact that communicating from Brazil proved to be a challenge because phone lines and access to email were not always available or consistently working, my doctor did send the letter to DTE. Six days prior to my returning home, I received an email from Elaine Curtis indicating that she had received the letter from my doctor, and that the meter would be removed. Dr. Kyle Morgan faxed her letter directly to DTE; DTE has the letter. I do not have a copy.

**Q. Did DTE follow your doctor's instructions?**



Not exactly. In addition to indicating the meter was making me ill, Dr. Morgan had specified an analog meter. DTE replaced my smart meter with a different digital meter, not an analog meter.

Elaine Curtis said that DTE no longer had a distributor for analog meters. From Brazil, I sent an email to DTE via the DTE complaint link.

The many typographical errors exist because, after losing power in the middle of writing my letter several times (and therefore, losing what I had written), I finally sent this one, errors and all.

DTE ignored both my request for an analog meter and my doctor's letter specifying the need for an analog meter. If DTE had wanted to install an analog meter, it would have been very easy to do so. Hundreds, even thousands of used analog meters, in good working condition, were available.

**Q. Was the smart meter removed?**

A. Yes, but it took awhile. Since I had received the email from Elaine Curtis on April 4th indicating that my meter would be replaced, and since I wasn't coming home until April 10th, I had hoped that my smart meter would be gone when I got home. As soon as I arrived home, I walked to the back of my house and checked. It hadn't been changed. I went back to stay at my friend's house, and I called Elaine Curtis immediately. I don't remember if I actually talked to her that day, or if I left a message and she called me back. When we talked, she thought that my smart meter had already been removed. She said she would check into it and get back to me. She did. When she called me back, she assured me it would be removed within a few days. It was. I don't remember what day it actually came off.

**Q. Why did you request an analog meter?**

A. I had not had any problems with the old analog meters; and, although I didn't understand the concept, I had heard the term "dirty electricity" associated with digital technology. At that point, I wanted my old, familiar, healthful home back.

**Q. Did replacing the smart meter with a digital meter solve the health problems caused by the smart meter?**

A. No. Although there was an improvement, the new digital meter did not solve the problem. My symptoms were not as severe as they had been with the smart meter, but the weird jittery feeling, the headaches, the buzzing sound in my head, the cough, memory problems, and the difficulty focusing—all came back, just to a lesser degree.

**Q. What did you do?**

A. I contacted Elaine Curtis again. She said she didn't think the new meter could cause problems, but that she would look into it. When she got back to me, she said that the new digital could not be the problem because it did not send a signal.

In the meantime, I had talked to my friend who teaches physics. She said that because radio frequencies travel long distances, my current problems might be caused by the RF from my neighbors' meters. She recommended putting up heavy duty tinfoil, shiny side toward the meters, where I suspected the RF might be entering my home. The tin foil would help shield my home, since radio waves are reflected by metal and shiny surfaces. She also explained that there are materials which diffuse radio frequencies.

Someone else said that the problem could be that the new digital meter was dumping dirty electricity into my home, and that could be causing the problem.

**Q.What did you do then?**

A. I did what I could to solve the problem:

My first intervention was to line my garage and cover an outside wall with heavy duty tin foil to shield my house from my neighbor's smart meter that was closest to my house, and where I felt it the most. That helped....a little. The buzzing in my head was definitely still there, but not quite as intense. The other symptoms remained.

Next, I lined the inside wall with tin foil that shares the wall with my meter, On top of that, I put 3 layers of absorbing material. After this intervention (and every other intervention), I waited awhile to see what, if any, effect it had on how I felt or on my symptoms.

**Q.Did it help?**

A. Yes. Although better, it was still difficult to be in my home.

Now that I was spending more time at home, other symptoms surfaced. I wasn't sleeping through the night: I'd wake up after three, four or five hours and not be able to go back to sleep. I'd feel tense, jittery. I became hoarse, and I developed a cough. After being home for about three weeks, I began to notice breathing problems: I would get out of breath just by going upstairs, and I had difficulty breathing in my Bikram Yoga Class when doing postures that I had done with ease prior to the smart meter installations. Also because of my yoga practice, I noticed a slight weakness on my left side, that had not been there earlier. I was not able to do some of the strength building postures I had done earlier.

The buzzing sound in my head would seem louder late at night and early in the morning, and I would always wake up with a headache and a buzzing sound in my head.

**Q. Have the interventions you've done helped?**

A. There is no question that each intervention has helped. The problem is that my home has never gone back to being what it was before: I still can't tolerate being in my home for more than a week or two without experiencing very worrisome symptoms. At this point, I still have concerns regarding smart meter effects on my blood pressure; and I have even bigger concerns about my breathing and my lungs. If I am home for more than a week, I get out of breath when I go up stairs, or when it is humid outside, and in I am no longer able to do some of the Bikram Yoga breathing exercises and postures that I formerly did with ease. So far, all of these symptoms improve or go away entirely when I leave my home for an extended period of time. I can't keep searching for people and places to visit, and as more smart meters are installed, there will be fewer places I can go for relief.

**Q.What else have you done to your home?**

A. Since my first attempt at using tin foil as a shield had helped . . . a little. . . I put up more. I put tin foil on some inside walls. I also put tin foil in my bathroom, and on the back wall of the bedroom that shares a wall with the meter.

I ordered material which is designed to absorb radio frequencies from [lessemf.com/](http://lessemf.com/). I put three layers of that material over the tin foil lining the back wall of the bedroom closest to my digital meter. I also lined one of the walls in my bedroom with this material.

The RF absorbing material is black; not exactly my color I'd choose for my bedrooms.

Because I was still experiencing symptoms, a few months ago I ordered a Graham - Stetzer meter and filters. I had read that the EMF levels can be measured and reduced by adding the filters. Again, I did notice a difference with the filters in place, but not enough of a difference to keep me symptom free.

Last month, I covered the back wall of my home with tin foil. It looks awful, but it made a difference. Again, it helped, but it has not totally taken care of the problem. With each intervention, I have felt a little calmer and the symptoms seem a little less intense, but none of the interventions has totally solved my problems. As I mentioned, I am especially concerned about the breathing difficulties I experience after being in my home for awhile. My blood pressure remains a concern as well, although I have been getting normal readings without medication since my last intervention of putting tin foil on the entire back side of my home.

I tried to spend as much time out of my home as possible. I left whenever I could. I went on trips for one to three weeks. Some were planned; others were trips I took just to get away from my house. Some symptoms, such as coughing, would go away as soon as I left my home. Others would go away after being out of my home for a period of time. The amount of time required for it to go away, depended on the symptom.

q.      **How long can you stay in your house before noticing symptoms?**

A.      The length of time before I experience symptoms depends on the symptom: If I return home after being away for a week, I feel jittery and get a buzzing sound in my head immediately upon entering my home. Within a few hours of being home, my eyes may hurt and become dry, and I will become hoarse and develop a cough. Things like breathing problems and weakness on my left side surface after being home for a week or more.

**Q.      How are things now?**

A.      I'm still spending as much time as possible away from home. From March 10, 2012, when smart meters were installed in my neighborhood, to the present, the longest stretch of time I will have been at home at one time is 30 days. Usually I am home only a few weeks before leaving again. When I leave, I try to be away for one to three weeks.

So far, when I have spent time away from my home, my symptoms have all lessened or completely gone away. When I return, they return.

Although being in my home is more tolerable than it was, even with all that I had done, my health while in my home is still not back to what it had been prior to the smart meter installations

**Q. Did these interventions help? Is the digital meter no longer a problem?**

A.      The interventions have helped, but all the problems remain. Whenever I return home, I immediately experience a buzzing sound in my head, I become hoarse, and I get a dry cough. My reactions are systemic: If I am at home for an extended period of time (a few weeks), additional symptoms surface:

- weakness on my left side,
- joint pain,
- chest pain,
- difficulty focusing,
- hot flashes,
- breathing problems,

- shortness of breath,
  - skin things (a rash above my right eye; rough hardened skin on my knuckles)
- my eyes hurt and become dry,  
all my teeth on my upper left jaw ache.

**Q. Did you make any more attempts at mitigation?**

A. I had not shielded the back of my house, both because I didn't think I could get tinfoil to stay up, and because I knew it would look terrible. Finally, though, in October, out of desperation to make my home more livable, I lined the entire back of my house with tinfoil. It looks awful. Again, it has not totally taken care of the problem and it is only a temporary measure, but it helped. I still haven't spent more than a few weeks in my home since this latest addition of tinfoil, but so far my sleep is more normal, the jittery feeling is not as intense, I don't feel as spacey. I am still getting hoarse, but less often, and my eyes hurt less. The weird, unsettled sensation in my body and the uncomfortable buzzing sound in my head persist.

With each intervention I have seen an improvement in my symptoms, but my house is in no way back to what it was before smart meters were installed in my neighborhood or the digital meter was installed on my home.. In addition, the tinfoil, besides being ugly, is a temporary solution that won't hold up over time.

**Q. How do you know that it is the digital meter that is causing these health effects?**

Although I know it seems unbelievable that a meter could trigger all these health effects, the meter was the only thing that has changed in my home environment. Furthermore, at least so far, all these problems go away when I leave my home: some go away immediately upon leaving; others go away in time. The symptoms return when I return.

**Q. So when you go to someone else's house that has a smart meter, do you have problems?**

A. Yes, to varying degrees. I always experience the buzzing sound and a jittery feeling. I may or may not experience other symptoms.

**Q. When you go into public buildings that have smart meters, do you have problems?**

A. Fortunately, most of the places I frequent do not have smart meters yet, so I can't answer this adequately. However, the spiritual center I attend has a smart meter and it is very uncomfortable to go there, so I have not been going.

**Q. Have you been in any home besides your own that has a digital meter?**

A. Yes. I have a friend who lives on Lake Tahoe. She remodeled her home several years ago, and has a digital meter. It is not a smart meter. I really don't know if it is the same as my meter. Her home is very deep, and the meter is way at the back. I couldn't sleep when I stayed in a back bedroom. I was able to sleep when I slept on her sofa, in the front of the house. The weather was great when I was there, and we spent most of our time outside hiking or by the water. I didn't have as much trouble there as I do at my own home. Her meter is older; I don't know if it is like mine.

**Q. In your experience, will the nontransmitting digital meter (the kind now on your home and the kind DTE is proposing as the alternative to the smart meter) solve the health problems you experience with smart meters?**

A. No.

**Are the nontransmitting digital meters an acceptable alternative to the smart meter?**

A. No

**Please list all the health effects you experience from smart and nontransmitting digital meters, whether on your own home or elsewhere.**

buzzing in my head  
Elevated blood pressure  
Muscle weakness, especially on my left side  
headaches  
cramps in legs and feet, extremely cold feet  
eyes hurt, blurry vision  
breathing problems, shortness of breath  
joint pain, arthritis like symptoms  
chest pain  
concentration and memory problems  
All of my teeth on one side aching

**Q. How do you know that it was the smart meter that first caused these health effects and not something else?**

A. The symptoms surface when I spend time at home. They go away when I leave. They surface when I am home again. I don't know if the symptoms are caused by my digital meter or my neighbors' smart meters, but the installation of smart meters in my neighborhood is the only thing that has changed in my environment.

**Q. Please list all the health effects you currently experience from the digital meter on your home.**

A. Without the remediation or if I am around other people's smart meters, I sometimes experience all of them, especially buzzing in my head.  
With the mitigation, I still experience buzzing in my ears and I am not as calm, I'm more agitated. To date, I haven't stayed at home long enough to know if the other symptoms will surface again.

**Q. Please list all the health effects you in the past experienced from the digital meter on your home but do not currently experience.**

A. Since putting tin foil on the back of my home, my blood pressure has been normal without medication as long as I avoid smart meters.

**Q. Has anything else changed that would account for the subsiding of these effects?**

A. No

**Q. Did you experience any of the health problems you have enumerated prior to the installation of smart meters?**

A. In 2007 I became ill after being exposed to a very toxic paint. The symptoms I did not experience were the buzzing in my head and the elevated blood pressure. I did experience the other symptoms. I recovered from that injury, and, until the smart meter was installed, I had not had experienced any of these symptoms since my recovery in 2008.

A.

**Q. Did you have health problems prior to the installation of smart meters? If so, what were they and when did they begin?**

A. Prior to the installation of my smart meter, I was healthy, I exercised regularly, I ate a good diet, and I was on no medication..

**Q. Did you do anything else to deal with this problem?**

A. Like I said, I put up shielding materials and I started spending as much time as possible away from home. I took several trips. Although some had been planned, I have taken others for the sole

purpose of getting away from my house. From March 10, 2012, when my smart meter was installed, to present, the longest stretch of time I will have been home at one stretch is 30 days. When I have spent time away from home, I have generally left for one to three weeks at a time. Each time I left, my symptoms went away within a day or two of being out of my house. I am still spending as much time away from my house as possible.

At this point, I have spent about \$2000 in materials and devices to tolerate living in my home, and I still have only a temporary fix that doesn't completely solve the problem. And, DTE is proposing additional charges to opt out.

DTE could probably use my home as an example of a smart meter success story: Their records should show that my energy usage has gone down since smart meters were installed in my neighborhood. It's a good example of how misleading it can be to just look at one source of data. My "real" energy usage is up—considerably. I consumed a lot more energy when you consider:

- transportation to doctors,
- products purchased to remediate my home
- medications I will need that I would otherwise not have needed
- driving and flying to destinations in order to stay away from home
- utilities consumed at visiting destinations

These are not just monetary expenses for me. They involve energy expenditures that far outweigh any energy savings DTE might claim.

My home no longer feels like "home." The number of places I can go and remain symptom-free is dwindling as Ann Arbor, the rest of Michigan, and the rest of the country is being installed. I would sell my house and move, but, at this point, I don't know where I could go.

**Q. Please list all of the health problems you currently experience from the digital meter on your home?**

A. Since my last mitigation, my most common symptoms are buzzing in my head, jitteriness, and breathing problems. The breathing problems are the ones that concern me the most.

**Q. Do you experience problems when you enter homes or other buildings with smart meters?**  
Yes. I can tell immediately if there is a smart meter.

A. **Have the health effects you experience as a result of smart meters affected your ability to interact socially with others? If the answer is yes, describe how.**

A. Yes, of course. I am avoiding going places that have smart meters. It limits where I can go and who I spend time with.

**Q. Have the health effects you experience as a result of smart meters affected your ability to access public services, such as the public library, government offices? If the answer is yes, describe how.**

A. Not yet.

**Q. Have the health effects you experience as a result of smart meters affected your ability to access religious or spiritual services? If the answer is yes, describe how.**

A. I am involved with a meditation group. I have not been attending programs because I experience symptoms if I am in the building for an extended period of time.

**Q. Have the health effects you experience as a result of smart meters affected your ability to freely access health services? If the answer is yes, describe how.**

A. Not yet.

**Q. Have the health effects you experience as a result of smart meters affected your ability to perform one or more major life activities not already mentioned? If the answer is yes, describe what activities and how the effects have affected your performance of these activities.**

A.       So far I have been lucky. Most of the places I frequent do not have smart meters yet. I am not looking forward to the day when smart meters are everywhere. It will be a nightmare for me.

**Q.       What do you feel is a reasonable accommodation to allow you to perform major activities of daily living?**

A.       A free opt out for everyone.

An analog meter option.

The Establishment of Smart Meter Free Zones and/or Facilities

The removal of smart meters everywhere.